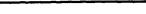
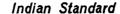


BLANK PAGE







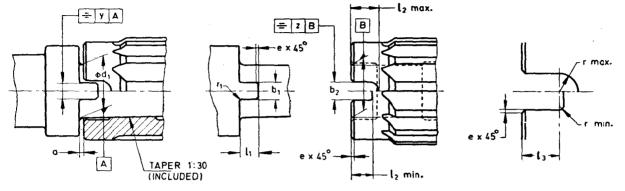


DIMENSIONS FOR TENONS AND CROSS-SLOTS WITH TAPER BORE 1:30

(First Revision)

1. Scope — Covers the dimensions for tenons and cross-slots for tools with taper bore 1:30.

2. Dimensions



All dimensions in millimetres.

d ₁	1	Arbor					Tool					e†		a‡			
	b ₁ / ₁	/1	71	у	b ₂ *	12		r		13	z Max	Basic	Tol	Min	Max		
	,h12	hi2 hi2 Max	Max	H13	Min	Max	Min	Max		IVIAX	-						
10	4	4.6	0.3	0·15	4.3	5.4	7:0	0.6	2.15	4.8	0.15	0.3	+ 0.1	0.3	1.5		
13	4	4.6	0.3		4.3	5.4	7.0	0.6	2.15	4.8		0.3		0.3	1-4		
16	5	5.6	0.4		5.4	6.5	8.3	0.6	2.40	5.6		0.4					
19	6	6.2			6.4	7.8	10.5	0 .8	3.50	7:0		0.2		0.4	1.7		
22	7	7.7	0.2		7.4	8.6	11.3	1.0	3.70	7.6							
27	8	8.8			8'4	9.3	12.5	1.0	4.50	8.3	0.20	0.6 + 0.5				_	
32	10	9.8	0.6	6 0.50	10.4	10.5	14.2	1.5	5.50	9.3							
40	12	11'0			12.4	11'2	16.2	1.5	6.50	10.0		0.0	0	0.2	2.5		
50	14	12.0	0.8	0.8		14.4	13.1	18.7	1.6	7.20	11.5		00	0.8			

*The width b_2 of the slot shall be parallel over the length l_3 . †Chamfers can be replaced by radii of the same value and tolerance. The limits on the clearance a between the mouth of the tool and the reference plane (locating face) towards the large end of the mating taper bore, are derived from the tolerances on diameter d_1 of the tool taper bore and of the taper portion towards the large end diameter of the arbor. These tolerances are determined by the values of a_1 and a_2 these in Table 4. given in Table 1.

3. Tolerances

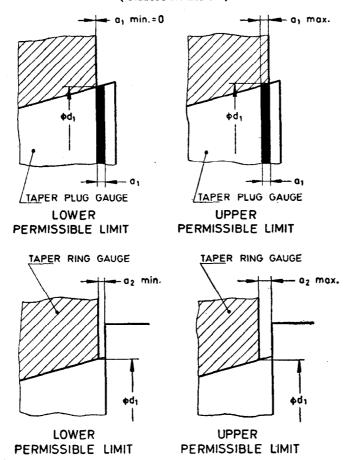
- 3.1 Tolerances on Diameter d_1 of the Taper Bore in the Tool The tolerance is determined by the amount of permissible variation a_1 in the position of the gauge plane of the taper bore. The value a_1 represents the depth to which taper plug gauge of the appropriate nominal size may enter the reamer to be checked with respect to its gauge line (see Table 1).
- 3.2 Tolerance on Diameter d_1 of the Arbor Large End Diameter The tolerance is determined by the amount of the permissible variation a_2 in the position of the gauge plane on the body of the arbor. The value a_2 represents the permissible distance between the leading face of a taper ring gauge of the appropriate nominal size and the reference plane (locating face) of the arbor to be checked (see Table 1).

Adopted 24 November 1978

@ March 1979, ISI

TABLE 1 VALUES OF a1 and a1

(Clauses 3.1 and 3.2)



All dimensions in millimetres.

d ₁	T e	ool 9 ₁	Arbor a:		
	Min	Max	Min	Мах	
10		0.5	0.8	1:2	
13		0.6	0 ·9	4.4	
16		0.6	0.9	1'4	
19					
22	o	0.7	1•1	1.7	
27					
32					
40		0.8	14	2.2	
50					

EXPLANATORY NOTE

This Standard was first published in 1970. This revision has been taken up to bring it in line with the work done at ISO level. In the preparation of this standard, considerable assistance has been derived from ISO 2402-1972 'Shell reamers with taper bore (taper bore 1:30 included) with slot drive and arbors for shell reamers' issued by the International Organization for Standardization.